

Nanomedicine: A Novel Approach

Afsana A and Silvan S *

Dept of Biochemistry, Achariya Arts and Science College, Villianur, Puducherry-110, India.

Corresponding author email: elumalai.mic@gmail.com

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Post Graduate & Research Departments of Biochemistry, Microbiology, Biotechnology and Bioinformatics, Mohamed Sathak College of Arts & Science, Sholinganallur, Chennai-600119, India.

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ABSTRACT:

Nanotechnology is defined as the “intentional design, characterization, production, and applications of materials, structures, devices, and systems by controlling their size and shape in the nanoscale range (1 to 100nm). The Nanomedicine’ is defined as the comprehensive monitoring, control, construction, repair, defence and improvement of all human biological systems, working from the molecular level using engineered devices and nanostructures, ultimately to achieve medical benefit. Nanomedicine is the most promising applications of nanotechnology in the field of medicine. Nanomedicine, specifically is the use of nanotechnologies for medical applications. The main advantage of nanomedicine on quality of life and on costs for healthcare is earlier detection of a disease leading to less severe and minimizing the costly therapeutic demands, and an improved clinical result. The present study focused that the applications of nanotechnologies in medicine are especially promising in the areas such as disease diagnosis, drug delivery targeted at specific sites in the body and molecular imaging, are being intensively investigated.